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### **ABSTRACT OF THE INVENTION**

A dual band radio receiver is provided. The dual band radio receiver includes a local oscillator configured to generate a local oscillator (LO) signal. The dual band radio receiver also includes first and second mixer devices. The first mixer device is configured to receive the LO signal and an RF signal included within a first band. Responsive to these signals, the first mixer device outputs a first IF signal. The second mixer device is configured to receive the LO signal and a second RF signal included within a second band. In response to these signals the second mixer device outputs a second IF signal. The local oscillator is configured to operate within a third band located between the first and second bands.

[illegible]